

AMENDMENT AND PRESENTATION OF CLAIMS

Please replace all prior claims in the present application with the following claims, in which claim 15 has been canceled without prejudice or disclaimer, claims 5, 7 through 9, 11 through 14, 18, and 20 through 24 have been amended, and new claim 25 has been added.

1. - 4. (Canceled)

5. (Currently Amended) An apparatus comprising:

at least one processor; and

at least one memory including computer program code for one or more programs,

the at least one memory and the computer program code configured to, with the at least one processor, cause the apparatus to perform at least the following,

generate a message ~~that is distinct from location updates performed by a global positioning system (GPS) receiver~~ when the apparatus is roaming in cells of a cellular radio network, the message indicating [[and]] that indicates the apparatus has detected that it is in a localized service area defined independently from cells using a computed geographic location of the mobile station, the geographic location being computed independent from a global positioning system (GPS) receiver, the message being generated by the apparatus without action by a user of the apparatus;

determine to transmit the message to a base station covering the localized service area;

and

receive information of one or more services selection localized based upon the localized service area and offered to said mobile station by a communications system including the base station, in response to the message.

6. (Previously Presented) An apparatus of claim 5, wherein the apparatus is a mobile phone, and said at least one memory includes a removable memory.

7. (Currently Amended) A method comprising:

generating at a mobile station a message ~~that is distinct from location updates performed by a global positioning system (GPS) receiver~~ when the mobile station is roaming in cells of a cellular radio network, the message indicating [[and]] that indicates the mobile station has detected that it is in a localized service area defined independently from cells using a computed geographic location of the mobile station, the geographic location being computed independent from a global positioning system (GPS) receiver, the message being generated by the mobile station without action by a user of the mobile station;
~~causing, at least in part, transmission of~~ determining to transmit the message to a base station covering the localized service area; and
~~causing, at least in part, reception of a~~ receiving information of one or more services selection localized based upon the localized service area and offered to said mobile station by a communications system including the base station, in response to the message.

8. (Currently Amended) A method of claim 7, wherein in response to the detection of the arrival of the mobile station in the localized service area, a predetermined additional one or more services are ~~are~~ [[is]] offered to the mobile station.

9. (Currently Amended) A method of claim 8, wherein said additional one or more services involve~~[[s]]~~ sending of announcements to the mobile station.

10. (Previously Presented) A method of claim 7, wherein in response to the detection of the arrival of a mobile station in the localized service area, the quantity of services offered to the mobile station by the communications system is reduced.

11. (Currently Amended) A method of claim 7, further comprising:

~~causing, at least in part, transmission of~~ determining to transmit a message indicating the arrival of a mobile station in the localized service area to a service server, for checking [[what]] which one or more services to be received at the mobile station in that localized service area; and

~~causing, at least in part, reception of~~ receiving the one or more services at the mobile station.

12. (Currently Amended) A method of claim 11, wherein [[the]] a request for the one or more services is transmitted to one or more application servers providing the one or more services, and each of the application servers provides one or more of the requested one or more services to the mobile station.

13. (Currently Amended) A method of claim 7, wherein the mobile station detects that it is in the localized service area by: comparing a computed geographic location with a stored geographic definition of the localized service area, and determining the mobile station is located in the localized service area when the computed geographic location is within the stored geographic definition of the localized service area.

14. (Currently Amended) A method of claim 13, further comparing:

~~causing, at least in part, reception of~~ receiving control information from a plurality of base stations at the mobile station, the control information including geographic coordinates of each respective one of the base stations; and averaging the geographic coordinates of the base stations at the mobile station to obtain geographic coordinates of the computed geographic location.

15. (Canceled)

16. (Previously Presented) A method of claim 7, wherein the message is either a short message service message, an unstructured supplementary service data message, or a dual tone multi-frequency-coded message.

17. (Previously Presented) A method of claim 7, wherein the message is sent to the base station in conjunction with a telephone call or a data call.

18. (Currently Amended) A method of claim 7, wherein the ~~server selection including a service of receiving~~ one or more services include transmitting announcements specific for the localized service area.

19. (Previously Presented) A method of claim 7, wherein the localized service area is an airport or a cafeteria.

20. (Currently Amended) An apparatus of claim 5, wherein the apparatus detects that it is in the localized service area by: comparing a computed geographic location with a stored

geographic definition of the localized service area, and determining the apparatus is located in the localized service area when the computed geographic location is within the stored geographic definition of the localized service area.

21. (Currently Amended) An apparatus of claim 20, wherein the apparatus is further caused to:

receive control information from a plurality of base stations, the control information including geographic coordinates of each respective one of the base stations; and average the geographic coordinates of the base stations to obtain geographic coordinates of the computed geographic location.

22. (Currently Amended) A computer-readable storage medium carrying one or more sequences of one or more instructions which, when executed by one or more processors, cause an apparatus to at least perform the following steps:

generating a message ~~that is distinct from location updates performed by a global positioning system (GPS) receiver~~ when the apparatus is roaming in cells of a cellular radio network, the message indicating [[and]] that indicates the apparatus has detected that it is in a localized service area defined independently from cells using a computed geographic location of the mobile station, the geographic location being computed independent from a global positioning system (GPS) receiver, the message being generated by the apparatus without action by a user of the apparatus;

determining to transmit ~~transmitting~~ the message to a base station covering the localized service area; and

receiving information of one or more services selection localized based upon the localized service area and offered to said mobile station by a communications system including the base station, in response to the message.

23. (Currently Amended) A computer-readable storage medium of claim 22, wherein the apparatus detects that it is in the localized service area by: comparing a computed geographic location with a stored geographic definition of the localized service area, and determining the apparatus is located in the localized service area when the computed geographic location is within the stored geographic definition of the localized service area.

24. (Currently Amended) A computer-readable storage medium of claim 22, wherein the apparatus is caused to further perform:

receiving control information from a plurality of base stations, the control information including geographic coordinates of each respective one of the base stations; and averaging the geographic coordinates of the base stations to obtain geographic coordinates of the computed geographic location.

25. (New) A method of claim 7, wherein the computed geographic location of the mobile station includes computed geographic coordinates.